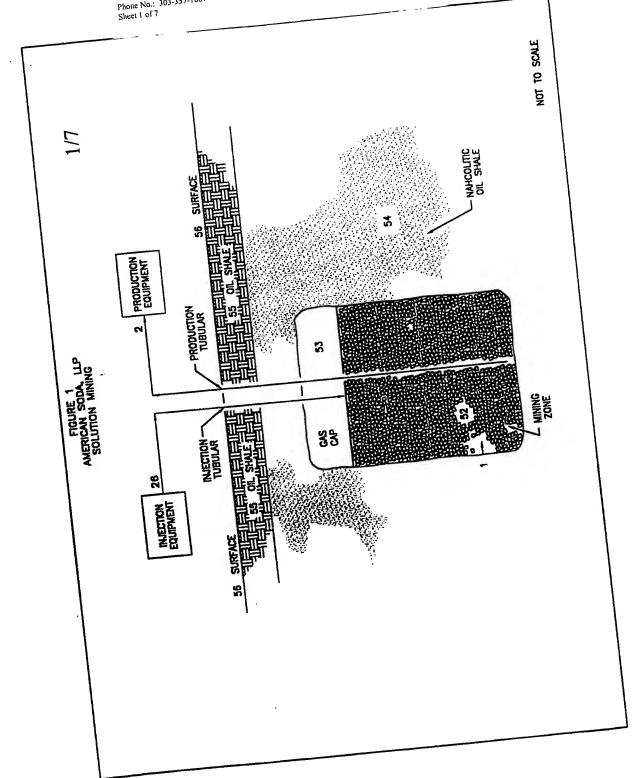
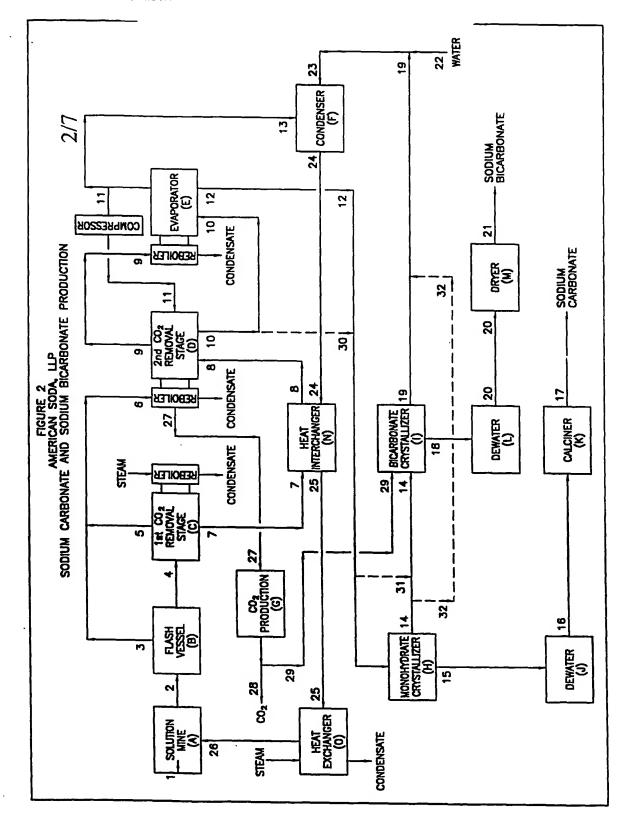
Inventor: Ramey et al.

Docket No.: 40217.0001USC2
Title: SODIUM CARBONATE AND SODIUM BICARBONATE PRODUCTION FROM NAHOOLITIC OIL SHALE
Attorney Name: Thomas H. Young
Phone No.: 303-357-1667
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Inventor: Ramey et al.
Docket No.: 40217.0001USC2
Title: SODIUM CARBONATE AND SODIUM BICARBONATE PRODUCTION FROM NAHCOLITIC OIL SHALE

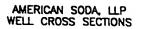
Attorney Name: Thomas H. Young Phone No.: 303-357-1667 Sheet 2 of 7



Inventor: Ramey et al.
Docket No.: 40217.0001USC2
Title: SODIUM CARBONATE AND SODIUM BICARBONATE PRODUCTION FROM

NAHCOLITIC OIL SHALE Attorney Name: Thomas H. Young Phone No.: 303-357-1667

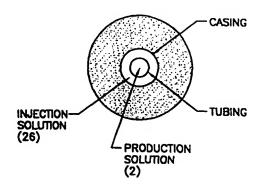
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FIGURE 3A CROSS SECTION DETAIL A-A'





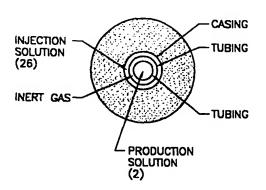
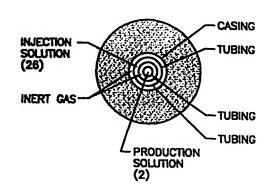
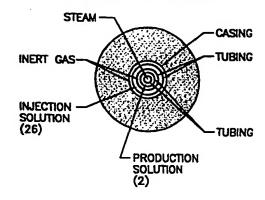


FIGURE 3C CROSS SECTION DETAIL A-A'

FIGURE 3D CROSS SECTION DETAIL A-A'



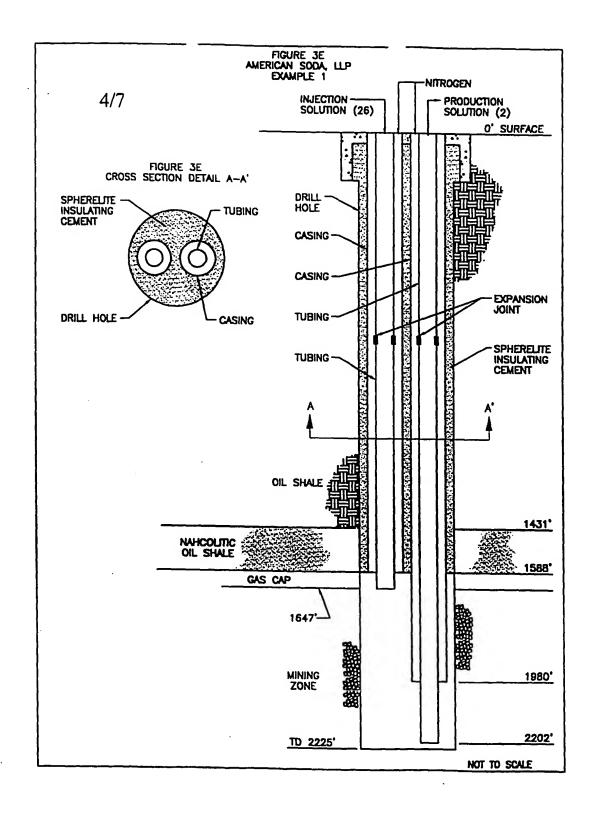


NOTE: SEE FIGURE 3E FOR VERTICAL VIEW

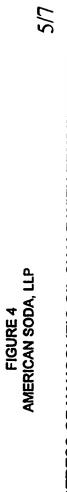
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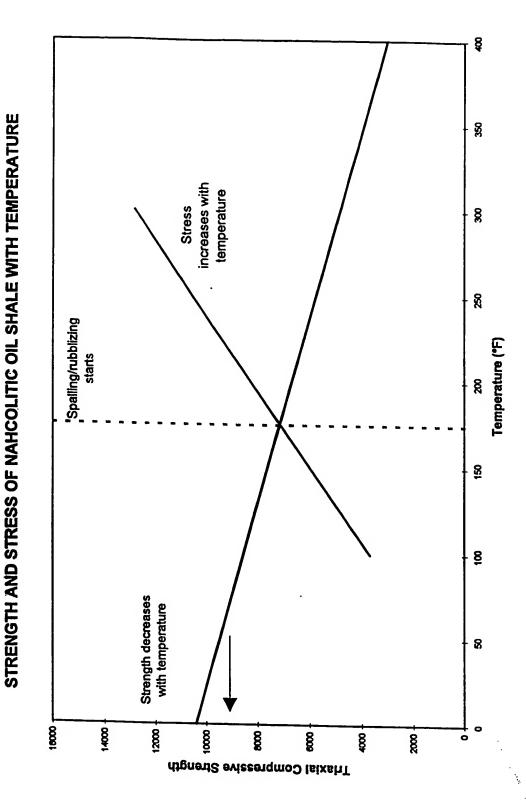
Inventor: Ramey et al.
Docket No.: 40217.0001USC2
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NAHCOLITIC OIL SHALE
Attorney Name: Thomas H. Young Phone No.: 303-357-1667 Sheet 4 of 7



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Attorney Name: Thomas H. Young
Phone No.: 303-357-1667
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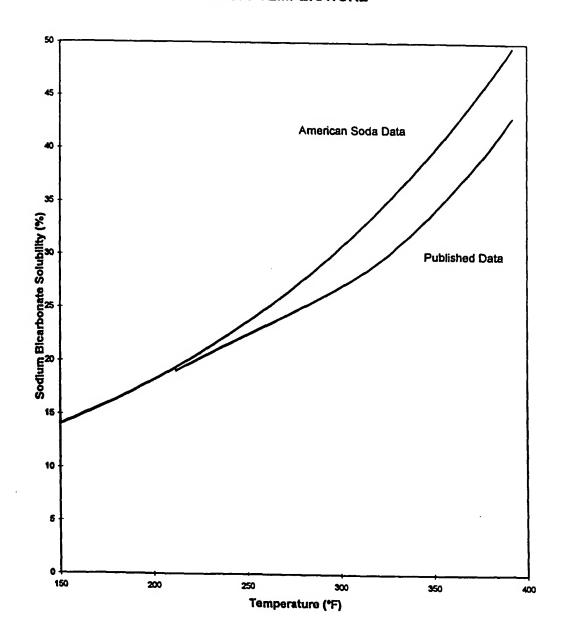


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## FIGURE 5 AMERICAN SODA, LLP

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## SOLUBILITY OF SODIUM BICARBONATE versus TEMPERATURE



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